

# Enhancing Governance and Stress-Test Agility with Versioned Portfolio Modeling

## Case Study

### Business Impact

**73%**

Improvement in time to generate investor-ready stress test reports

**90% ↑**

compliance with audit

**47% ↓**

in time spent preparing governance materials

**82% ↓**

model rework frequency

### Problem Statement

The firm's capital strategy team faced rising scrutiny from internal audit and external investors. Key challenges included a lack of version control across Excel models, inconsistent application of assumptions (e.g., cap rates, lease terms), and the inability to generate rapid stress-test outputs when market dynamics shifted. Frequent rework before investor meetings caused bottlenecks, while the absence of a transparent audit trail introduced compliance risk.

### Solution Overview

- Established version-controlled valuation templates with tracked changes for assumptions like discount rate, lease rollover schedules, and occupancy.
- Designed a scenario engine that allowed teams to simulate interest rate hikes, tenant defaults, and lease churn—individually or in combination.
- Deployed stress-testing dashboards with side-by-side comparison views of base, optimistic, & pessimistic scenarios.
- Implemented role-based access, ensuring that data updates and edits could be managed by authorized users only, with full change history.
- Enabled “freeze and snapshot” features to preserve specific model states for reviews.
- Integrated audit-ready reporting outputs, including calculation lineage and time-stamped assumption logs.
- Added collaboration functionality for finance & audit teams to comment, tag, and flag valuation anomalies directly in the model view.